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DATE MAILED: 02/22/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,797	03/30/2004	Jae-Deok Park	10125/4139	7565
75	90 02/22/2006		EXAM	INER
Brinks Hofer Gilson & Lione			NGUYEN, DUNG T	
Post Office Box 10395 Chicago, IL 60610		•	ART UNIT	PAPER NUMBER
Cincago, in	0010		2871	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/813,797	PARK, JAE-DEOK				
Office Action Summary	Examiner	Art Unit				
	Dung Nguyen	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06 De	ecember 2005					
	action is non-final.					
3) Since this application is in condition for allowan		secution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-53</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5.10-13 and 24-53</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-9 and 14-23</u> is/are rejected.						
7)⊠ Claim(s) <u>3 and 7-9</u> is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement.					
	cicolon requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the l	Examiner.				
Applicant may not request that any objection to the o	lrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948) Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

Applicant's election of species 1 in the reply filed on 12/06/2005 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2, 4, 6, 14 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ha, US Patent 6,919,945, in view of Kim et al., US 6,522,377.

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Regarding the above claims, Ha discloses a transflective liquid crystal display (LCD) device comprising:

a first substrate (100) having a transmissive pixel area (126a) and a reflective pixel area (rest area);

. a plurality of gate lines/data lines/ bottom gate thin film transistor inherently formed in the LCD device;

- . a first passivation (118);
- . a first reflector (portion of 126 on the left contact hole 128a);
- . a second passivation layer (128);
- . a second reflector (portion of 126 overlapped the transmissive pixel area);
- . a pixel electrode (130);
- . a second substrate (facing to the first substrate) inherently formed in the LCD device;
- a liquid crystal layer between two substrates.

Ha, however, does not disclose a color filter (R/G/B) corresponding to one of the pixel regions. Kim et al. do disclose a color filter including red, green and blue (62) can be formed over an upper substrate (1) corresponding to pixel regions (see figures 2-3). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ a color filter in the Ha's display device as shown by Kim et al. in order to obtain a color display device.

5. Claims 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ha, US Patent 6,919,945, in view of Kim et al., US 6,522,377, further in view of Applicant's admitted prior art (APA), figure 3.

Regarding the above claims, the modification to Ha disclose the claimed invention as described above except for the first passivation uneven surface and the first reflector formed over that. APA, figure 3, does disclose a first passivation (30) having an uneven surface and a first reflector (41) formed over such uneven surface. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ the Ha's first passivation having an uneven surface as well as an uneven reflector in order to improve a display brightness due to the unevenness surface of the reflector.

Allowable Subject Matter

6. Claims 3 and 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN 02/20/2006 Dung Nguyen
Primary Examiner
Art Unit 2871